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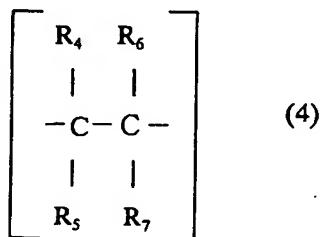
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(54) Title: CATIONIC GRAFT-COPOLYMER FOR NON-VIRAL GENE DELIVERY VECTOR



(57) Abstract: A cationic graft-copolymer for a non-viral gene delivery vector comprising a unit derived from a cationic derivative of a water-soluble linear polymers having a hydroxyl groups, namely, a cationic polysaccharide of the following formula (1) $[C_6H_7O_2(OH)_3-a(OX)_a]_x H_2O$ (1) and the cationic derivative of polyvinylalcohol of the following formula (2) or the cationic derivative of the partial hydrolyzed polyvinylalcohol of the following formula (3) $[CH_2CH(OH)_1-b(OX)_b]_n$ (2) $[CH_2CH(OH)_1-b-c(OX)_b(OAc)_c]_n$ (3) and a unit derived from a polymerizable olefin compound of the following formula (4) $R_4 R_6 | - C - C - (4) | | R_5 R_7(a, x, b, n, c, Ac, X, R_4, R_5, R_6, \text{ and } R_7 \text{ are defined in claim 1-6); a process for preparing the same and a transfection reagent made therefrom..$



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